Docket No.: 2611-0228PUS1

(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Patent Application of: Wataru MATSUMOTO

Application No.: Not Yet Assigned

Filed: December 20, 2004

For: METHOD AND APPARATUS FOR

GENERATING CHECK MATRIX

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Examiner: Not Yet Assigned

Confirmation No.: N/A

Art Unit: N/A

INFORMATION DISCLOSURE STATEMENT (IDS)

MS PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement accompanies the new patent application submitted herewith.

A copy of each reference on the PTO/SB/08 is attached. Please note that JP-A-2001-168733 corresponds to U.S. Patent 6,715,121-B1; and JP-A-6-223095 and JP-A-6-223096 both correspond to EP-A2-0 611 054.

DT01 Rec'd PCT/PTC 2 0 DEC 2004

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A concise explanation of relevance of the items listed on form PTO/SB/08 is in the form of an English language copy of a Search Report from a foreign patent office, issued in a counterpart application, which refers to the relevant portions of the references.

In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 02-2448, under Order No. 2611-0228PUS1. A duplicate copy of this paper is enclosed.

Dated: December 20, 2004

DRA/clb

Respectfully submitted,

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PTO/SB/08a/b (08-03)
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Substitute for form 1449A/B/PTO				Complete if Known	
				Application Number	Not Yet Assigned
11	NFORMATION	N DI	SCLOSURE	Filing Date	December 20, 2004
STATEMENT BY APPLICANT			APPLICANT	First Named Inventor	Wataru MATSUMOTO
	(Use as many sheets as necessary)			Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	1	of	1	Attorney Docket Number	2611-0228PUS1

U.S. PATENT DOCUMENTS					
Examiner	Cite No.1	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where
Initials*		Number-Kind Code ² (if known)			Relevant Passages or Relevant Figures Appear
	AA	US-6,715,121-B1	03-30-2004	LAURENT	

	FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No.1	Foreign Patent Document Country Code ³ -Number ⁴ -Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
	ВА	JP-2001-168733-A	06-22-2001			\Box
	BB	JP-6-223095-A	08-12-1994			
	BC	JP-6-223096-A	08-12-1994			
	BD	EP-0 611 054-A2	08-17-1994			

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. \(^1\) Applicant's unique citation designation number (optional). \(^2\) See Kinds Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. \(^3\) Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). \(^4\) For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. \(^5\) Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. \(^6\) Applicant is to place a check mark here if English language Translation is attached.

	NON PATENT LITERATURE DOCUMENTS					
Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²			
	CA	R.G. GALLAGER., "Low-Density Parity-Check Codes", Cambridge, MA: MIT Press, 1963.				
	СВ	Y. KOU et al., "Low Density Parity Check Codes Based on Finite Geometries: A Rediscovery," ISIT 2000, pp.200, Sorrento, Italy, June 25 to 30, 2000.				
	CC	LUDY et al., "Improved Low-Density Parity-Check Codes Using Irregular Graphs and Belief Propagation", Proceedings of 1998 IEEE International Symposium of INformation Theory, pp. 171, Cambridge, Mass., August 16 to 21, 1998.				
	CD	RICHARDSON et al., "The capacity of low-density parity-check codes under message-passing decoding", IEEE Trans. Inform. Theory, vol. 47, No. 2, pp. 599 to 618, Feb. 2001.				
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	CF	J. ROSENTHAL, P.O. VONTOBEL, "Construction of LDPC codes using Ramnujan graphs and ideas from Margulis", in Proc. of the 38th Allerton Conference on Communication, Control, Computing, 2000, pp. 248-257.				

^{*}EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Examiner		Date
Signature	_	Considered

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